

MOTOR-DRIVEN DISK BRAKE

ABSTRACT OF THE DISCLOSURE

A motor-driven disk brake having a caliper containing a piston for pressing a brake pad, a rotary actuator and a rotary-to-rectilinear motion converting mechanism for transmitting rotation of the rotary actuator to the piston after converting it into a rectilinear motion. The piston is driven in response to rotation of the rotary actuator to press the brake pad against a disk rotor, thereby generating braking force. A brake releasing mechanism for returning the rotary-to-rectilinear motion converting mechanism to its initial position in the event of a failure in the rotary actuator is interposed between a rotating member and a rectilinearly moving member that constitute the rotary-to-rectilinear motion converting mechanism. The brake releasing mechanism has urging means for generating a torque in the direction for returning the piston in response to the rotation of the rotating member in the direction for advancing the piston. The urging means generates a torque greater than the rotational resistance of the rotating member of the rotary-to-rectilinear motion converting mechanism.

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